VERSION WITH MARKINGS TO SHOW CHANGES MADE

- Paragraph 33, at page 12, starting at line 17:

[0033] The inventors herein have discovered that the [dammarance] dammarane sapogenin structure that is modified to be specifically clean of any sugar moieties (glycons) at any position and free of hydroxyl at C-20 has surprisingly improved effectiveness in treating cancers, particularly in treating multi-drug resistant cancers, compared to sapogenins that have sugar moieties on the structure or a hydroxyl at C-20 The inventors have unexpectedly found that PAM-120, PBM-110 and PBM-100, which all fall into this chemical category, have greater anti-cancer effect than other known saponins and sapogenins. In particular, these three sapogenins, and especially PAM-120, show surprisingly effective activity in the treatment of multi-drug resistant cancers.

- Paragraph 34, at page 13, starting at line 1:

[0034] The inventors have also surprisingly and unexpectedly found that a [dammarance] dammarane sapogenin structure which is free of a hydroxyl at C-20, even though there may be a sugar moiety on the structure, demonstrates effective anti-cancer activity, particularly in the treatment of multi-drug resistant cancers. PAN-20 and PAN-30, according to this invention, fall into this latter category.

- Paragraph 44 at page 16, starting at line 3:

[0044] Pharmaceutical compositions typically must be sterile and stable under the conditions of manufacture and storage. The composition may be formulated as a solution, microemulsion, liposome, or other ordered structure suitable to high drug concentration. The carrier can be a solvent or dispersion medium containing, for example, water, ethanol, polyol (for example, glycerol, propylene glycol, and liquid polyethylene glycol, and the like), and suitable mixtures thereof. The proper fluidity can be maintained, for example, by the use of a coating such as lecithin, by the maintenance of the required particle size in the case of dispersion and by the use of surfactants. In many cases, it will be preferable to include isotonic agents, for example, sugars, polyalcohols such as mannitol, sorbitol, or sodium chloride in the composition. Prolonged absorption of the injectable compositions can be brought about the including in the composition an agent which delays absorption, for example, monostearate salts and gelatin. Moreover, the pharmaceutical compositions

may be administered in a time release formulation, for example, in a composition which includes a slow release polymer. The active compounds can be prepared with carriers that will protect the compound against rapid release, such as controlled release formulation, including implants and microencapsulated delivery systems. Biodegradable, biocompatible polymers can be used, such as ethylene vinyl acetate, polyanhydrides, polyglycolic acid, collagen, polyorthoesters, polylactic acid and polylactic, polyglycolic copolymers (PLG). Many methods for the preparation of such formulations are patented or generally [know] known to those skilled in the art.

- Paragraph 45 at page 16, starting at line 26:

[0045] Sterile injectable solutions can be prepared by incorporating an active compound in the required amount in an appropriate solvent with one or a combination of ingredients enumerated above, as required, followed by filtered sterilization. Generally, dispersions are prepared by incorporating the active compound into a sterile vehicle which contains a basic dispersion medium and the required other ingredients from those enumerated above. In the case of sterile powders for the preparation of sterile injectable solutions, the preferred methods of preparation are vacuum drying and freeze-drying which [yields] yield a powder of the active ingredient plus any additional desired ingredient from a previously sterile-filtered solution thereof. Pharmaceutical compositions may be formulated with one or more compounds that enhance the solubility of the active compounds.

- Paragraph at page 17, starting at line 5:

Example 1: Preparation process of producing PAM-120, PBM=100, and PAN-20

[1] Ginseng crude extract 10 g was dissolved in 40 mL of 95% ethanol

[2] Add 40 mL of 5 N NaOH

[3] Pour into the reaction tank, and set temperature to [240C] 240°C, and pressure to 3.5 Mpa, for 1.5 hours

[4] Reduce temperature to room temperature, and take the products out the tank

[5] Add HCl to neutralize pH to about 7, and expend the volume to 800 mL using water

[6] Extract 3 times with acetic ester, 100 mL each time

[7] Combine all the extracts, and reduce the pressure to dry. Thus, obtain 3.8 g of dried extracts

[8] Grind and dissolved the extract in 20 mL of methanol, and mix the methanol solution with silica gel

[9] Dry up the mixture, and then grind to fine powder

[10] Load the Silica gel column

[11] Wash the column with 60 mL of ether:petroleum benzin (1:3), and thus, 250 mg of PAM-120, and 45 mg of PBM-100 were obtained

[12] Wash the column with 90 mL of chlorofom:methanol (95:5), and thus 50 mg of PAN-20 was obtained.

- Paragraph starting at page 17, starting at line 27:

Example 2: Another example of preparation process producing PAM-120, PBM-100, and PAN-20

[1] 10 g of Ginseng crude extract was added into reaction tank

[2] Add to the reaction tank 100 mL of 5 N NaOH

[3] Set temperature to [270C] 270°C and pressure to 4.5 Mpa for 1 hour

[4] Reduce temperature to room temperature, then take out the products

[5] Neutralize the pH to 7 using HCl

[6] Filter and keep the solids

[7] Dissolve the solids in 10 mL of 95% Ethanol

[8] Add water to make ethanol content less than 5%

[9] Sit still overnight

[10] Filter and keep the solids

[11] Dry the solids

[12] Dissolved the solids in 10 mL of methanol

[13] Filter and keep the solution

[14] Dry the solution to obtain 3.6 g of products

[15] Mix the products with 11 g of silica gel

[16] Grind and then load the silica gel column

[17] Wash the column with 100 mL of ether:petroleum benzin (1:3), and thus, 60 mg of PAM-120, and 65 mg of PBM-100 were obtained

[18] Wash the column with chloroform:methanol (95:5), and thus 60 mg of PAN-20 was obtained.

- Paragraph starting at page 23, starting at line 2:

Table 4. [B16 MELANOMA] MURINE SARCOMA 180 BEARING MICE

LIFE PROLONGATION RATE

Group	DS_{50}	ADS(M∓SD)	LPR(%)
	%		
Control	14	14.7 ∓ 5.4	
Rh2 ([3]10 mg/kg)	22	24.7 ∓ 12.6	68.0
PAM-120 ([3]10 mg/kg)	38	38.6 ∓ 16.4	162.6
Rh2 ([6]25 mg/kg)	41	44.3 ∓ 19.6	201.4
PAM-120 ([6]25 mg/kg)	77	80.6 ∓ 34.4	448.3

- Paragraph starting at page 26, starting at line 3:

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REMARKS

The amendments to Table 4 on page 23 have amended the Specification so that the data summarized in Table 4 now corresponds with the text in Example 5 of the Specification. The remaining amendments to paragraphs 33, 34, 44, 45, Example 1, Example 2, and the References on page 26 have been made to correct inadvertent typographical errors.

Applicant submits that no new matter has been added to the specification. In light of the foregoing, favorable action in this case is requested.

Respectfully submitted,

By: _____

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